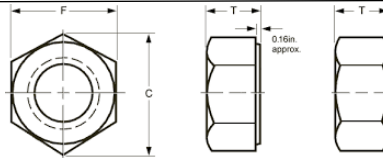




Heavy Hex Nut Product Information

1.0 Dimensions:



| Nominal Size or Basic Major Diameter of Thread | F | | C | | T | |
|--|--------------------|-------|----------------------|-------|-----------|-------|
| | Width Across Flats | | Width Across Corners | | Thickness | |
| | Max | Min | Max | Min | Max | Min |
| 1/4 | 0.500 | 0.488 | 0.577 | 0.556 | 0.250 | 0.218 |
| 5/16 | 0.562 | 0.546 | 0.650 | 0.622 | 0.314 | 0.280 |
| 3/8 | 0.688 | 0.669 | 0.794 | 0.763 | 0.377 | 0.341 |
| 7/16 | 0.750 | 0.728 | 0.866 | 0.830 | 0.441 | 0.403 |
| 1/2 | 0.875 | 0.850 | 1.010 | 0.969 | 0.504 | 0.464 |
| 9/16 | 0.938 | 0.909 | 1.083 | 1.037 | 0.568 | 0.526 |
| 5/8 | 1.062 | 1.031 | 1.227 | 1.175 | 0.631 | 0.587 |
| 3/4 | 1.250 | 1.212 | 1.443 | 1.382 | 0.758 | 0.710 |
| 7/8 | 1.438 | 1.394 | 1.660 | 1.589 | 0.855 | 0.833 |
| 1 | 1.625 | 1.575 | 1.876 | 1.796 | 1.012 | 0.956 |
| 1-1/8 | 1.812 | 1.756 | 2.093 | 2.002 | 1.139 | 1.079 |
| 1-1/4 | 2.000 | 1.938 | 2.309 | 2.209 | 1.251 | 1.187 |
| 1-3/8 | 2.188 | 2.119 | 2.526 | 2.416 | 1.378 | 1.310 |
| 1-1/2 | 2.375 | 2.300 | 2.742 | 2.622 | 1.505 | 1.433 |
| 1-5/8 | 2.562 | 2.481 | 2.959 | 2.828 | 1.632 | 1.556 |
| 1-3/4 | 2.750 | 2.662 | 3.175 | 3.035 | 1.759 | 1.679 |
| 1-7/8 | 2.938 | 2.844 | 3.392 | 3.242 | 1.886 | 1.802 |
| 2 | 3.125 | 3.025 | 3.608 | 3.449 | 2.013 | 1.925 |
| 2-1/4 | 3.500 | 3.388 | 4.041 | 3.862 | 2.251 | 2.155 |
| 2-1/2 | 3.875 | 3.750 | 4.474 | 4.275 | 2.505 | 2.401 |
| 2-3/4 | 4.250 | 4.112 | 4.907 | 4.688 | 2.759 | 2.647 |
| 3 | 4.625 | 4.475 | 5.340 | 5.102 | 3.013 | 2.893 |
| 3-1/4 | 5.000 | 4.838 | 5.774 | 5.515 | 3.252 | 3.124 |
| 3-1/2 | 5.375 | 5.200 | 6.207 | 5.928 | 3.506 | 3.370 |
| 3-3/4 | 5.750 | 5.562 | 6.640 | 6.341 | 3.760 | 3.616 |
| 4 | 6.125 | 5.925 | 7.073 | 6.755 | 4.014 | 3.862 |

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2.0 Properties:

- Steel:

| Grade ▶▶▶ Feature ▼▼▼ | A | | C | | DH | | 2H | | |
|--|--|--|------------------------------------|------------|--|---|--|------------|--------------------------------------|
| Standard | ASTM A563 | | ASTM A563 | | ASTM A563 | | ASTM A194/A194M or ASME SA-194/ SA-194M | | |
| Hardness Rockwell | Min | Max | Min | Max | Min | Max | Sizes 1-1/2" Including | | Sizes Over 1-1/2" |
| | | | | | | | Min | Max | Max |
| | B68 | C32 | B78 | C38 | C24 | C38 | C24 | C35 | C35 |
| Proof Load Strength | Plain & Zinc Plated UNC, 8UN, 6UN and Coarser Pitch Threads: 100 KSI or 100,000 PSI UNF, 12UN and Finer Pitch Threads : 90 KSI or 90,000 PSI | Hot Dip Galvanized UNC, 8UN, 6UN and Coarser Pitch Threads: 75 KSI or 75,000 PSI UNF, 12UN and Finer Pitch Threads: 68 KSI or 68,000 PSI | All finishes 144 KSI or 144,00 PSI | | Plain & Zinc Plated 175 KSI or 175,000 PSI | Hot Dip Galvanized 150 KSI or 150,000 PSI | Plain & Zinc Plated 175 KSI or 175,000 KSI | | Hot Dip Galvanized 150 KSI or 150,00 |
| Grade Marking | A | | C | | DH | | Plain: 2H Zinc Plated & Hot Dip Galvanized: 2H zN | | |

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Stainless Steel:

| Classification | | Condition | Proof Load Strength KSI | Rockwell Hardness | Grade Marking |
|----------------|-------------------|-----------|-------------------------|-------------------|---------------|
| Type | Nominal Size | | | | |
| 18-8 | 1/4 to 5/8 incl | CW1 | 108 Minimum | B95-C35 | F594C |
| | 3/4 to 1-1/2 incl | CW2 | 92 Minimum | B80-C35 | F594D |
| 316 | 1/4 to 5/8 incl | CW3 | 108 Minimum | B95-C35 | F594G |
| | 3/4 to 1-1/2 incl | CW4 | 92 Minimum | B80-C35 | F594H |

3.0 Surface Finish: Plain/Zinc/HDG. Zinc & HDG details given in table below:

| Properties | Zinc | Zinc Yellow | Hot Dip Galvanized |
|---------------------------|--|--|---|
| Type | Trivalent (Cr+3) | Hexavalent (Cr+6) | RoHS Compliant |
| Color | Clear | Yellow | |
| Minimum Coating Thickness | 0.001"/ 3 Microns or 0.002"/ 5 Microns | 0.0001"/3 Microns or 0.0002"/5 Microns | Sizes 3/8" & Under : 0.0017" (43 microns) Sizes Over 3/8 " 0.0020" (50 Microns) |
| Specification | ASTM F1941/F1941M Fe/Zn 3AN or Fe/Zn 5AN | ASTM F1941/F1941M Fe/Zn 3C or Fe/Zn 5C | ASTM F2329/F2329M or ASTM A153/A153M |

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